



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/727,554	12/04/2000	Masahiro Arai	040679/1173	4320	
22428	7590 07/30/2003				
FOLEY AND LARDNER SUITE 500 3000 K STREET NW WASHINGTON, DC 20007			EXAM	EXAMINER	
			CORRIGAN, JAIME W		
WASHINGIC	JN, DC 20007		ART UNIT PAPER NUMBER		
			3748	Zo	
			DATE MAILED: 07/30/2003	ŀ	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	•		GW.				
Examiner  Jaime W Corrigan  Jarve W Corrigan  Art Unit  Jaime W Corrigan  Jave W Corrigan  Art Unit  Jaime W Corrigan  Jave W Corrigan  Art Unit  Jave W Corrigan  Jave W Corri		Application No.	Applicant(s)				
Jalme W Corrigan 3748	Office Action Summers	09/727,554					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be existable under the provision of 37 CFR 1.13(e). In ne event, however, may a reply be fimely filed after SX (8) MONTHS from the mailing date of this communication.  If the period for reply seeding that we is less than thin (20) days, and the study reply within the address XX (8) MONTHS from the mailing date of this communication.  Failure to reply within the set or adended period for reply will the set properties XX (8) MONTHS from the mailing date of this communication.  Failure to reply within the set or adended period for reply will the set or adended period to the communication.  Failure to reply within the set or adended period to reply will the set or adended period to the communication.  Failure to reply within the set or adended period to reply will the set or adended period to the communication.  Failure to reply within the set or adended period to reply will the set of this communication.  Failure to reply within the set or adended period to reply will the set of this communication.  Failure to reply within the set or adended period to reply will the set of this communication.  Failure to reply will be considered to this communication.  Failure to reply will be considered to this communication.  Set of the set of the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to place to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the communication.  Failure to reply will be considered to the	Office Action Summary	Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extractions of time may be available under the provisions of 37 CFR 1.136(a). In a event, however, may a reply be timely filed after \$10, (8) MONTH'S from the malling date of this communication.  If NO period for reply is specified above, the maximum statutory period will apply a SIX (8) MONTH'S from the malling date of this communication.  If NO period for reply is specified above, the maximum statutory period will apply a SIX (8) MONTH'S from the malling date of this communication.  Fallius to prevy which the act or extended period for reply will. I yet alter, by will in the statution become ABANCHOE (38 U.S. € 133).  Any reply received by the Office later than there menths after the malling date of this communication, even if timely filed, may reduce a my sound potent turn adjustment. Be 37 CFR 1.736(a).  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-10 is/are pending in the application.  4a) Claim(s) 1.59 and 10 is/are rejected.  7b	TI MAILUIO DATE Subjection of the communication		<u> </u>				
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be veriable under the provisions of 3 CFR 1.13(q). In no event, however, may a reply be timely filed after SIX (g) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (20) days, a reply which the studyry printing may of the provision of t							
2a)  This action is FINAL. 2b) This action is non-final.  3  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 2-4 and 6-8 is/are allowed.  6) Claim(s) 1,5,9 and 10 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a accepted or b objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a opproved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
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	Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 16, 17 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

#### **DETAILED ACTION**

This Office Action is in response to the Request for Reconsideration filed on 19 November 2002. Overall, claims 1-10 are pending in this application. The arguments with respect to the references applied in the first Office Action were deemed persuasive, however, a new non-final rejection is set forth below.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 5, 9-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hashimoto (PN 6,170,446).

Regarding claims 1, 5 Hashimoto discloses a method for controlling intake air (See Column 2 Lines 44-67) of an internal combustion engine, the engine having at least one combustion chamber (See Figure 10 (8)) provided with an intake valve (See Figure 10 (17)) together with an intake manifold (See Figure 10 (15), Column 2 Lines 44-47) provided with a throttle valve (See Figure 10 (26)), wherein the opening and closure timings of the intake valve are adjustable (See Column 7 Lines 49-55, Column 9

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Lines 24-44) independently from a crankshaft position to control the amount of intake air (See Column 2 Lines 44-48, 51-54, Column 7 Lines 49-55, Column 9 Lines 24-26) supplied to the combustion chamber, the method comprising: damping (See Column 9 Lines 16-44) an operating signal for the intake valve relative to a change in acceleration or deceleration demand on the engine, for unthrottled (See Column 11 Lines 9-16, Column 20 Lines 19-25) intake air control.

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Regarding claim 9 Hashimoto discloses the operating signal is for timing the opening and closing of the intake valve (See Column 7 Lines 49-55, Column 9 Lines 24-44).

Regarding claim 10 Hashimoto discloses the operating signal is for regulating the air intake into the combustion chamber (See Column 2 Lines 44-48, 51-54, Column 7 Lines 49-55, Column 9 Lines 24-26).

## Response to Arguments

Applicant's arguments with respect to claims 1, 5, 9-10 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kruger (PN 5,031,582), Hammoud et al. (PN 6,405,706) disclose similar variable valve timing systems.

Any inquiry concerning this communication from the examiner should be directed to Examiner Jaime Corrigan whose telephone number is (703) 308-2639. The examiner can normally be reached on Monday - Friday from 8:30 a.m. – 6:00 p.m. 2<sup>nd</sup> Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (703) 308-2623. The fax number for this group is (703) 872-9302. After Final (703) 872-9303.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

JC

Jaime Corrigan

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Patent Examiner

July 24, 2003

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BINH TRAN PATENT EXAMINER